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(54)Title: FUSED HETEROCYCLIC COMPOUNDS AND MEDICINAL USES THEREOF

(54)発明の名称 締合ヘテロ環化合物およびその医薬用途

(57) Abstract

Fused heterocyclic compounds represented by general formula (I), optical isomers or pharmaceutically acceptable salts thereof, medicinal compositions comprising these compounds and pharmaceutically acceptable additives, and drugs comprising these compounds. These compounds exert more potent blocking effects on D_1 receptors than on D_2 receptors. Moreover, they have high affinities for receptors other than dopamine receptors such as muscarine M_1 , serotonin-2 (5-HT₂) and adrenalin α_1 and α_2 receptors. Thus, these compounds are efficacious against not only positive symptoms typified by hallucination and delusion characteristic of the acute stage of schizophrenia but also negative symptoms such as emotional torpidity, abulia and autism. In addition, they are useful as antipsychotic agents with relieved side effects such as extrapyramidal symptoms and abnormal internal secretion observed in association with the administration of the conventional antipsychotic agents having only D_2 receptor antagonism. The above compounds are usable as remedies for diseases such as schizophrenia.

